

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR 2005/003786

## A. CLASSIFICATION OF SUBJECT MATTER

IPC<sup>8</sup>: D06F 58/06 (2006.01); D06F 37/20 (2006.01); F16C 11/06 (2006.01)

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC<sup>8</sup>: D06F, F16C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
EPODOC, WPI, PAJ, TXTr

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 483 756 A (HEYDER) 16 January 1996 (16.01.1996) <i>figure 2, column 3, line 14 - column 4, line 9.</i>	1-3, 5, 9-13, 17, 19, 21, 22, 26- 28, 30, 35, 36, 40-43, 46 14, 15, 32, 33
Y	--	
Y	US 4 712 940 A (WOOD JR.) 15 December 1987 (15.12.1987) <i>figure 2, column 5, lines 11-45.</i>	14, 15, 32, 33
A	EP 0 344 452 A1 (A. MERLONI S.P.A.) 6 December 1989 (06.12.1989) <i>figures 1, 2, column 2, lines 1-18.</i>	1, 21, 40

 Further documents are listed in the continuation of Box C. See patent family annex.

## \* Special categories of cited documents:

"A" document defining the general state of the art which is not considered

to be of particular relevance

"B" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art  
"&" document member of the same patent family

Date of the actual completion of the international search 19 January 2006 (19.01.2006)	Date of mailing of the international search report 2 February 2006 (02.02.2006)
Name and mailing address of the ISA/AT <b>Austrian Patent Office</b> Dresdner Straße 87, A-1200 Vienna Facsimile No. +43 / 1 / 534 24 / 535	Authorized officer <b>WININGER B.</b> Telephone No. +43 / 1 / 534 24 / 460

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3 306 640 A (MELTON ET AL.) 28 February 1967 (28.02.1967) <i>figures 1-3, column 2, line 31 - column 4, line 16.</i>	1, 21, 40

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.
PCT/KR 2005/003786

Patent document cited in search report			Publication date	Patent family member(s)		Publication date
EP	A	344452		EP	A1 0344452	1989-12-06
				IT	B 1217754	1990-03-30
US	A	3306640	1967-02-28	DE	A1 1425070	1968-12-19
US	A	4712940	1987-12-15	DE	A1 3700057	1987-07-16
				JP	A 62184217	1987-08-12
				US	A 4695182	1987-09-22
US	A	5483756	1996-01-16	JP	A 7096097	1995-04-11
				FI	A 942661	1994-12-08
				SI	T1 628654T	1999-02-28
				EP	A1 0628654	1994-12-14
				DE	D1 59407366D	1999-01-14